Work Order ID 71325



Page 1

Insp.

Stamp

Reject

Number

Tuesday, June 28, 2011 10:06:14 AM D3391-023 Item ID: Accept Setup Start **Revision ID:** Stop Mid Tube Assembly Item Name: Start Date: 6/28/2011 Start Qty: 1.00 **Cust Item ID:** Required Date: 7/27/2011 Req'd Qty: 1.00 **Customer:** Reference: Run Start Process Plan: MF Date: //-06-25 Tooling: Approvals: Date: Stop Date: _____ QC: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject **Work Center ID** Description **Run Hours** Code **Qty Oty** Draw Nbr **Revision Nbr** D3391 Rev H 100 0.00 Skidtubes Skidtubes 0.00 Memo Skidtubes 1-Cut tube to finish length as per Dwg D3391 2-Identify as D3391-023 3-Drill pilot holes using DT8796 (Do not drill "B" holes) and drill only 1 fwd saddle hole on one side only as per Dwg D3391 4-Open saddles and GHW holes to Ø0.375" exept for fwd saddle hole of detail 5-Remove .030" from Fwd indexing Ridge as per Dwg D3391 6-Remove indexing ridge on Fwd & Aft end of skidtube as per Dwg D3391 7-Deburr 8-Drill #30 pilot holes using wearplate Jig DT8217 Identify Ø0.250" holes with

11-6-29

10-Open wearplate holes of D3391-023 assembly detail section H-H to Ø0.297" (20 holes) as per Dwg D3391

9-Open wearplate holes of D3391-023 assembly detail section G-G to Ø0.250" (14 holes) as per Dwg D3391 and 2 holes in section Detail "J", do not open

paint marker,

wearplate holes of section "J"

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Work Order ID 71325

Tuesday, June 28, 2011 10:06:14 AM



Page 2

Item ID:

D3391-023

Accept



Setup Start



Stop

Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

6/28/2011

Start Oty: 1.00

Required Date: 7/27/2011

Reg'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Start



Date:_____

SPC (Y/N):

Date:

Stop

Sequence ID/

Operation

Set Up/

Tool ID

Tool # Plan

Accept

Run

Reject

Insp.

Work Center ID

Description

Run Hours

Code Qty Reject Qty

Number Stamp

11-Open .375" holes to .438" ***do not open fwd saddle holes***

12-Locate D3391-021 in D3391-023 at 9.00" (see view z-z)

13- Transfer drill one fwd saddle hole only to .188" dia, transfer drill all remaining fwd saddle holes using DT 8149 locating from previusly drill .188" dia hole, using t-pins and clicos to ensure perfect allingment, open up previusly tranfer drilled pilot holes in D3391-023/-021 to 0.438" dia. in D3391-021

14- Transfer drill 2 wearplate holes into D3391-021 using DT8217, locating from two previously drilled holes, drill remaining wearplate holes into D3391-021.

15- Locating from two fwd wearplate holes drilol remaining 6 wearplte holes in D3391-021 using DT8937

16- Open 2 fwd wearplate holes in D3391-023 to .250" dia.

17- counterbore two aft wearplate holes in D3391-021 as per dwg

18- Open 12 wearplate holes in D3391-021 to 0.297" dia.

19-Deburr and blow out all chips from inside tube

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·Work Order ID 71325

Tuesday, June 28, 2011 10:06:14 AM



Page 3

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

6/28/2011

OC:

Start Oty: 1.00

Required Date: 7/27/2011 Req'd Qty: 1.00

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan: _____

Memo

Memo

Date: Date: Tooling:

SPC (Y/N):

Set Up/

Date:

Stop

Start



Sequence ID/

Work Center ID

110

QC

Quality Control

Operation **Description**

QC5- Inspect part completeness to step on W/O

Run Hours

Dul04130

Tool ID

Date:

Tool # Plan Code

Accept Qty

Run

Reject Qty

Reject Number

Insp. Stamp

120

HandFinish

Hand Finishing

Chemical Conversion Coat per QSI005 4.1

0.00

0.00

SAD 11-06 -30

130

Quality Control

QC3- Inspect Part Finish

Memo

0.00

0.00

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W/O:			W	ORK ORDER CHA	ANGES					• •
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Work Order ID 71325

Tuesday, June 28, 2011 10:06:14 AM



Page 4

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

6/28/2011

Start Qty: 1.00

Required Date: 7/27/2011

Reg'd Oty: 1.00



Cust Item ID: Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Date: _____ QC:

Date: Tooling:

SPC (Y/N):

Date:

Date:

Tool # Plan

Code

Run

Reject

Qty

Accept

Qty

Start



Stop

Insp.

Stamp

Reject

Number

Sequence ID/ Work Center ID

140

Skidtubes Skidtubes

Operation Description Set Up/ **Run Hours**

0.00

0.00

Skidtubes

Memo

1-Open float bag holes as per dwg 2-C'sink float bag holes as per dwg

3- Prepare tube for welding

4-Bond web in place as per Dwg D3391 & QSI 015.

Adhere for 12 hours)

A/R Sikaflex exp: 10/01 batch#: M 116945

150

QC

Quality Control

QC5- Inspect part completeness to step on W/O

Memo

0.00

0.00

160

Skidtubes

Skidtubes

Skidtubes

Memo

0.00

0.00

1-Weld crossbolt spacer as per dwg D3391 & QSI 004

2-grind weld flush

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W/O:			W	ORK ORDER CHANG	ES				1 .
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Work Order ID 71325

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Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

Required Date: 7/27/2011

Start Qty: 1.00 6/28/2011

Req'd Qty: 1.00

Cust Item ID: Customer:

Reference:

Approvals:

QC:

Process Plan:

Memo

Date:

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Run

Start Stop



Sequence ID/

Work Center ID

170

Quality Control

Operation Description

OC10- Inspect visual per OSI004- ground welds

Set Up/ **Run Hours**

Tool ID

Tool # Plan Code

Accept Qty

Reject Qty

Reject Insp. Number Stamp

0.00 C WO7/W

180

Quality Control

OC5- Inspect part completeness to step on W/O

0.00

Swhotlay

185

HandFinish Hand Finishing Pressure Wash per QSI005 4.3

Memo

0.00

Memo

0.00

AND REALODINE AS PER PAR09-043

1 & BK 11-9-4.

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Work Order ID 71325

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Item ID:

D3391-023

Accept



Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

Required Date: 7/27/2011

6/28/2011

Start Qty: 1.00

Req'd Qty: 1.00



Date:

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date: _____

Tooling:

0.00

SPC (Y/N):

Date:

Date:

Run

Start

Stop



Sequence ID/

Operation Work Center ID Description

QC:

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

Set Up/ Run Hours

Tool ID

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Tool # Plan

Accept Code Qty

Reject Qty

Reject Insp. Number

Stamp

Powdercoat

Powder Coating

START TIME: OVEN TEMPERATURE:

FINISH TIME:

200

190

Memo

QC3- Inspect Part Finish

0.00

0.00

Quality Control

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W/O:			WC	ORK ORDER CHANGE	S				,1 .
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NOTE: Date & initial all entries

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Page 7

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	Mid Tube Assembly										Stop		
Start Date: Required Date:		t Qty: 1.00 d Qty: 1.00	[]			Cust Item I Customer:	D:						
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Approvals:	Process Plan:		Date:		Tooling:	D:	ate:			Run	Start		
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Sequence ID/ Work Center ID	Opera Descr	ation ription			Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	t Rej Qty			nsp. Stamp
Skidtubes Skidtubes	Skidtul	Memo 1- insert D33 2- insert T-pi 3- ON FIRST per DSI 9364 4- remove T- pins and clek 5- ON 2ND 9 DT9415 6- deburr, re-	F SIDE ONLY pins and locate os SIDE ONLY re alodine and ble	d third fwd s drill out 2nd DT9415 fro am out 2nd a	and forth fwd saddles ho	It hole using T-						मि पिठच	66
220 QC Quality Control	QC5- Iı	nspect part comple	teness to step o	on W/O	0.00	> world			<u> </u>				·

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·Work Order ID 71325

Tuesday, June 28, 2011 10:06:14 AM



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Item ID:

D3391-023

6/28/2011

Accept

Setup Start

Stop



Revision ID:

Item Name: Start Date:

Mid Tube Assembly

Cust Item ID:

Customer:

Tool ID

Required Date: 7/27/2011

Reference:

Process Plan:

Date: _____

Tooling:

Date:

Run

Start



Approvals:

Date: _____

SPC (Y/N):

Date:

Tool # Plan

Code

Stop

Reject

Qty



Sequence ID/ **Work Center ID**

230

HandFinish

Hand Finishing

Operation Description

Start Oty: 1.00

Req'd Oty: 1.00

HandFinishing

Memo

Install Inserts as per Dwg

Set Up/ **Run Hours**

0.00

0.00

Accept

Qty

Reject Number

Insp. Stamp

1.1. 240

QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Dul orles

0.00

250

Packaging

Identify as per dwg & Stock Location: W/O

D412-742-043/B71372

Memo

0.00

Packaging

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W/O:			W	ORK ORDER CHANGE	S				49
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Work Order ID 71325

Tuesday, June 28, 2011 10:06:14 AM



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Item ID:

D3391-023

Accept

Setup Start

Stop

Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

6/28/2011

Start Qty: 1.00

Operation

Description

Required Date: 7/27/2011 Req'd Qty: 1.00



Date:

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

QC:

Date:

Tooling:

SPC (Y/N):

Set Up/

Run Hours

Tool ID

Tool # Plan

Accept

Reject Qty

Run

Reject

Insp.

260

Sequence ID/

Work Center ID

Quality Control

Memo

QC21- Final Inspection - Work Order Release

0.00

0.00

Date:

Date:

Code

Qty

Number Stamp

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W/O:			W	ORK ORDER CHANG	ES			1 .
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Picklist Print

Tuesday, June 28, 2011 10:06:11 AM

Work Order ID: 71325

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



Start Date: 6/28/2011

Required Date: 7/27/2011

Start Qty: 1.00

Required Oty: 1.00

Comments:

IPP A□05.10.20□New Issue□

IPP B□06.02.10□ECN773 dwg rev.D

 $EC\square$

IPP C 07.03.20 rev F dwg

EC

KJ/EC□

IPP D 07.03.28

EC

IPP E 07.10.31 ecn 1053P

EC

IPP Rev:F ECN 1056 07-11-13 DD

re-format

verified by: EC

IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev: I 08-11-13 Removed steps per w/o, QC KJ verified by: ec IPP Rev:J add in seq 140 expire date &b# sikaflex DD 10.02.17 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2500-1-100 Skidtube Extrusion	1	Manufactured	No			100	Each	82.0000	1	1			
		_		_	37065	<u>Loc</u>	82 7	Loc Code) [//	-6-	29
D3391-021		Manufactured	No	B	50251 27/32	100	75 Each	0.0000			P,	1-6	-29
D3389-1		Manufactured	No	Ī	371353	140	Each	0.0000		1			Sh
D3681-1		Manufactured	No .			160	Each	24.0000	5	5		BE	11 (64/30 1/07/0
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Picklist Print

*Tuesday, June 28, 2011 10:06:11 AM

Page 2

Work Order ID: 71325

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



Start Date: 6/28/2011

Required Date: 7/27/2011

Start Qty: 1.00

Required Qty: 1.00

D3591-1

Bushing

Manufactured

210

Each

27.0000

Loc Code

Insert

ALS4-1032-130 Purchased No

Location	<u>Lo</u>	c Qty
ST068	•	27
57350 66147		2
66147		25
	230	Each

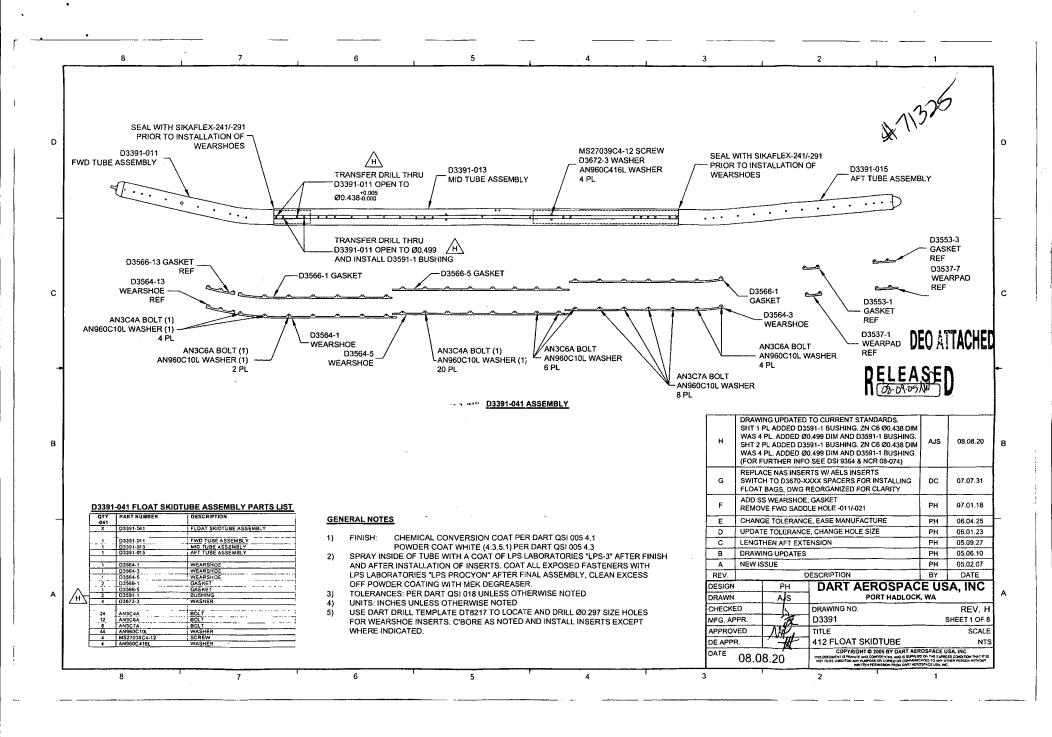


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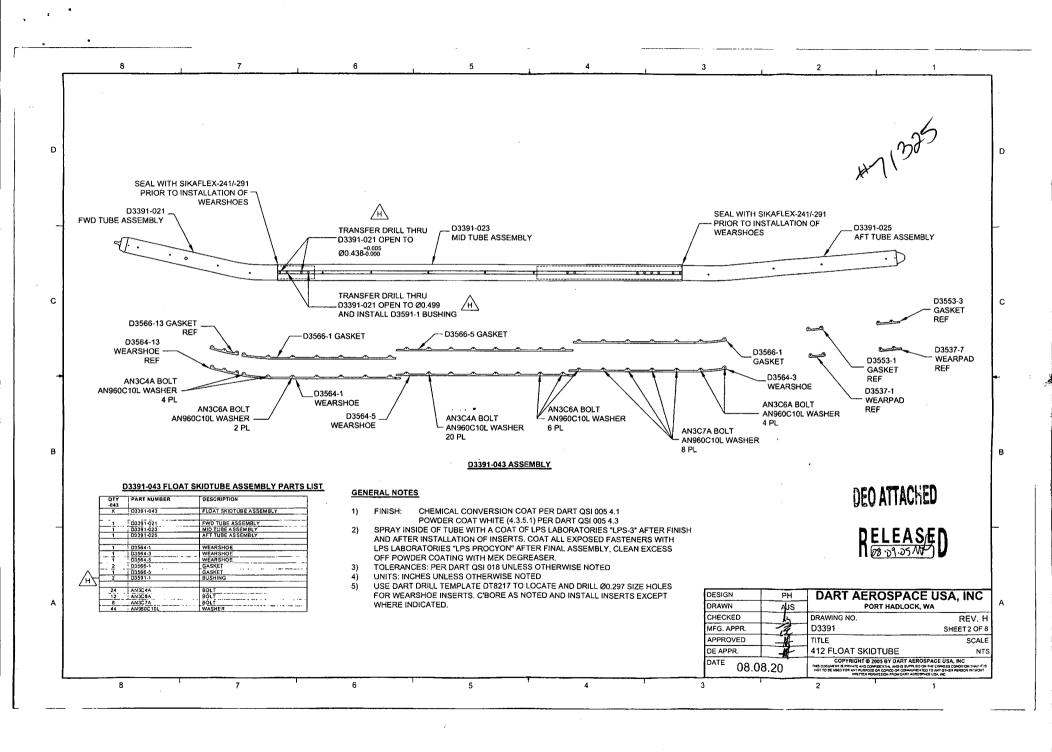
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ST282		1114	
117	717	1114	

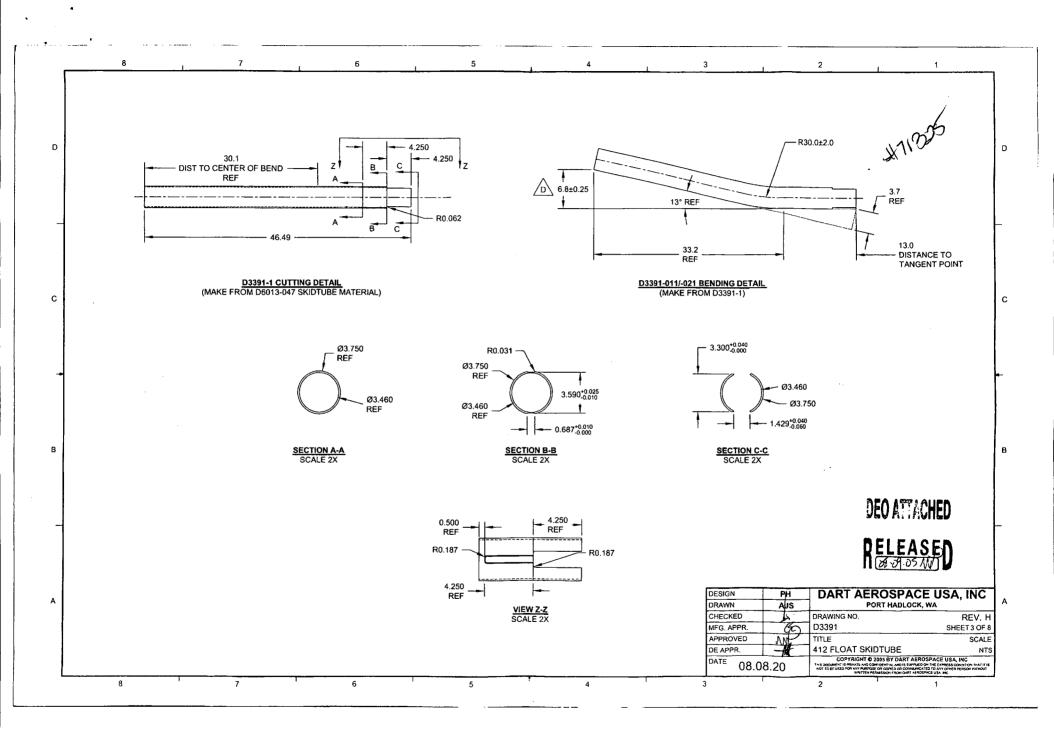
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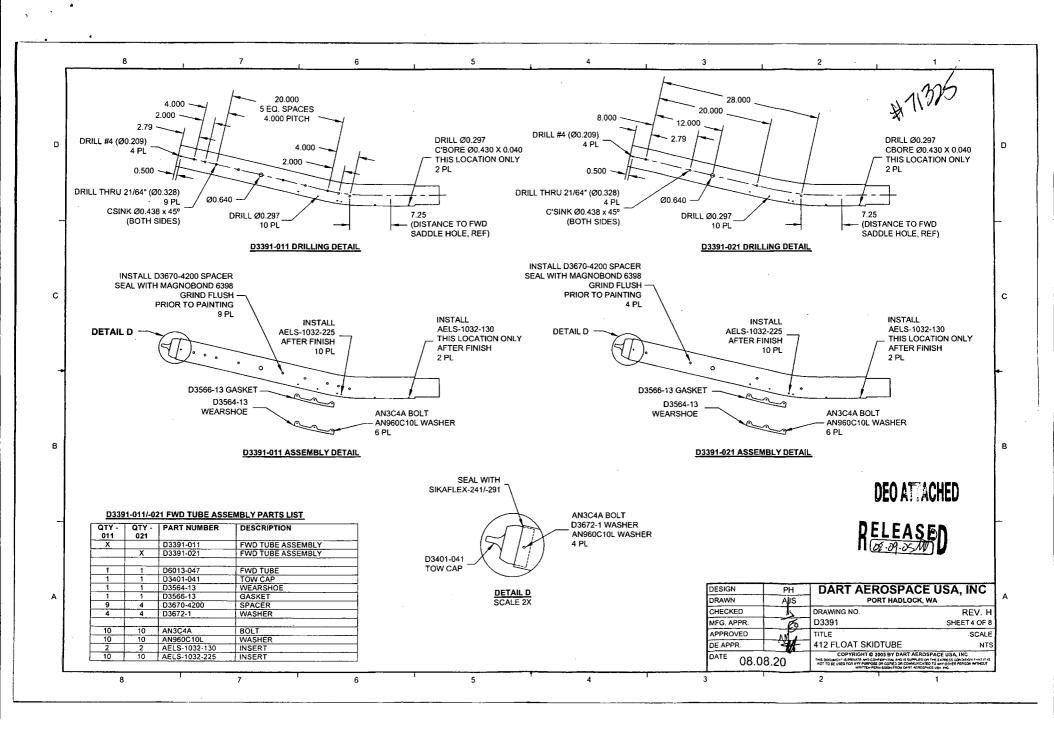
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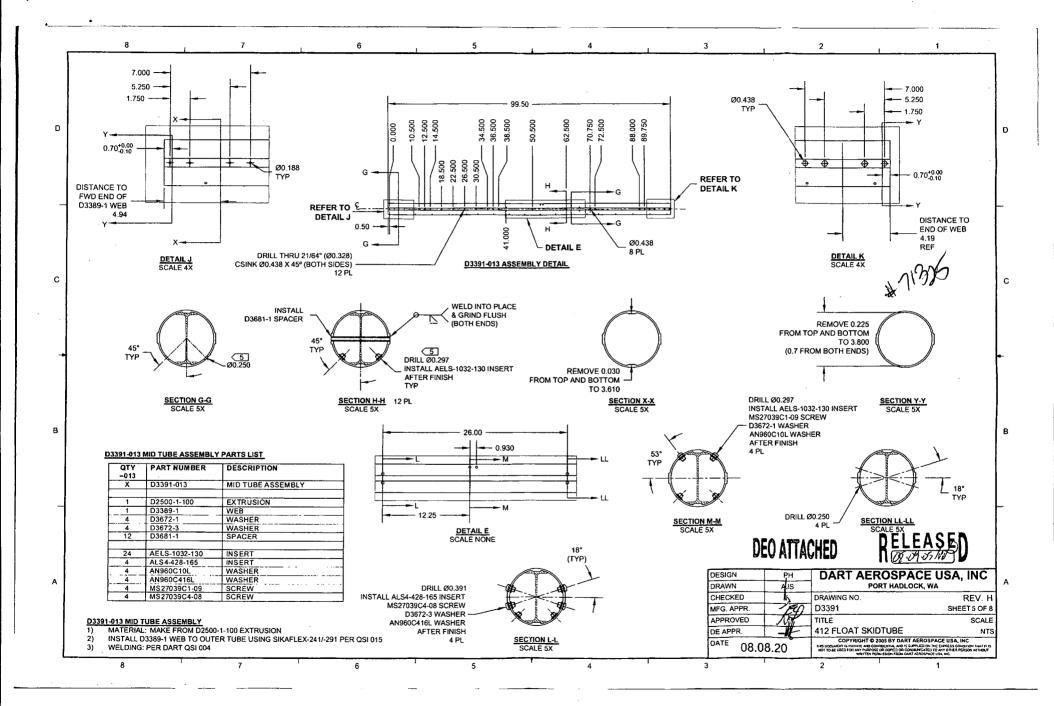
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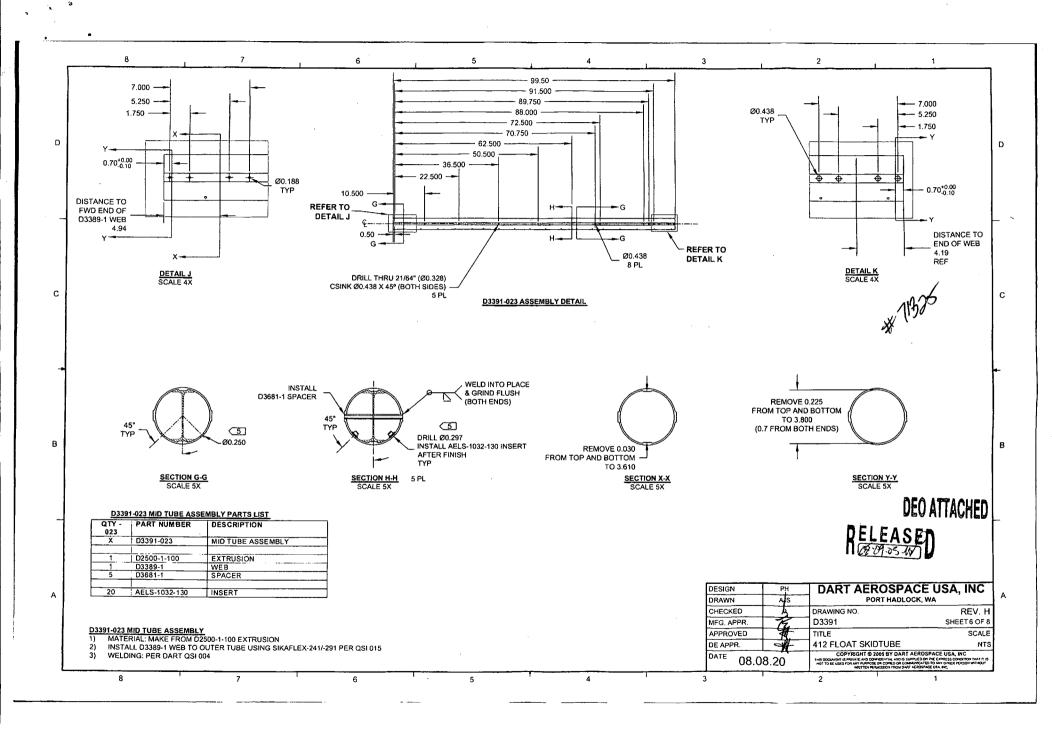
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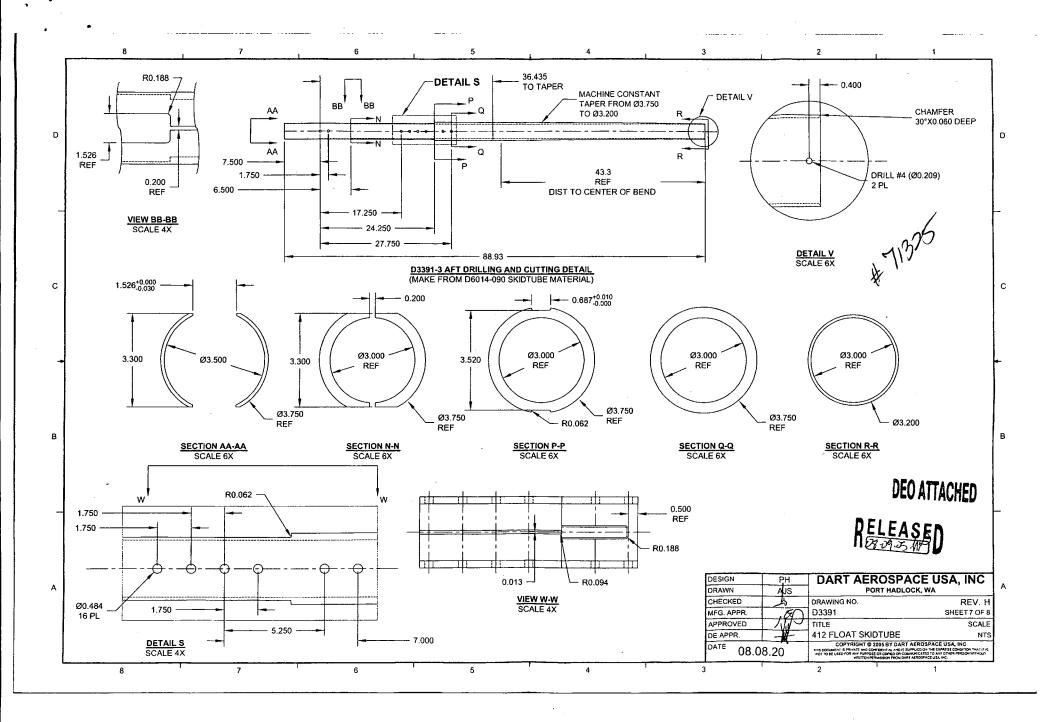
										
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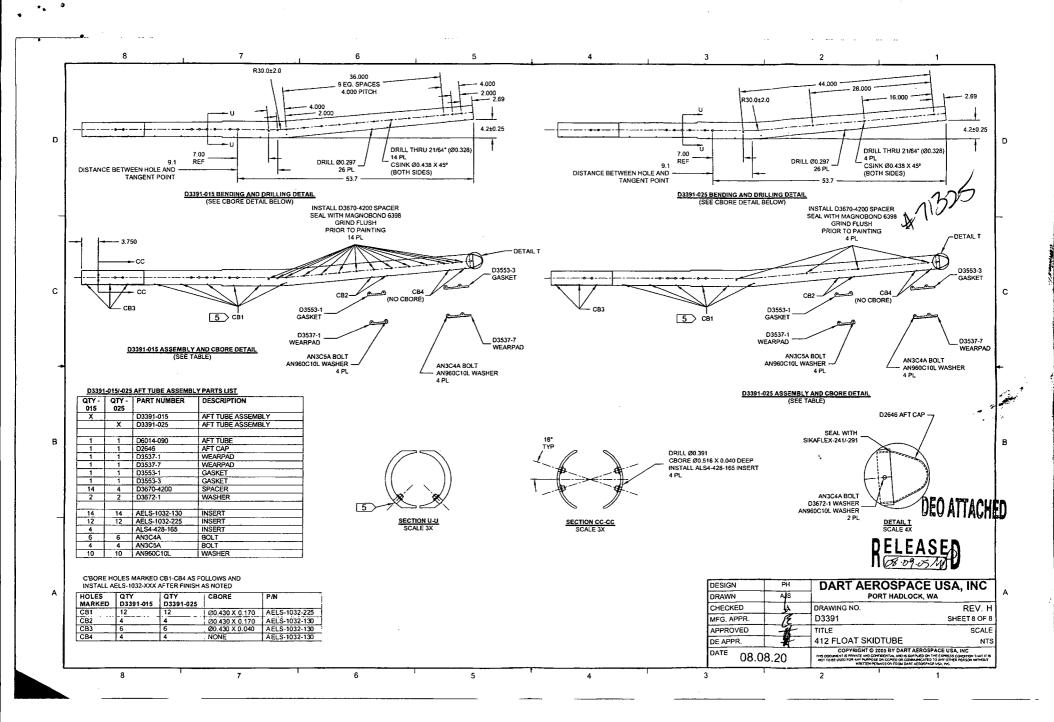
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DRAWING NO.	TITLE		REV. H D	ART AEROSP	ACE USA, INC	D.E.O. NO.	SHEET NO.	SCALE
D3391	412 FLOAT	SKIDTUBE	,	ENGINEERIN	NG ORDER	D3391-H-1	SHEET 1 OF, 1	NTS
DRAWN	A)	CHECKED	li,	MFG. APPR.	API	PROVED MY	DE APPR.	
DATE 09	.09.23	DATE Of.	24.24	DATE 09/0	9/25 DA	TE 09/09/30	DATE 09/09/3	0

PURPOSE:

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

CHANGE:

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.



MP

11/35

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NOTE: Date & initial all entries

NO. 256

AWS D17.1.2001 QUALIFICATION TEST RECORD

Name: Dakel Job number:	ay B	7018	7 20	
Part number: 13	391.	023	> .	
Description: M	d Tu	be		
Welding Process: T	gM M	ig[]		
Base materiel:	lumi	rum		
Current: AC D	C[]			
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TEST REQUIREMENTS AND RESULTS

Visual: Penetration:	pass[fail[] pass[fail[]
UNACCEPTABLE	
Cracks:	pass[fail[]
Undercut: Pin holes:	pass[Y fail[] pass[Y fail[]
Overlap (cold lap) Porosity (surface):	pass[Y fail[] pass[X fail[]
Coloration:	pass[U] fail[]
Qualifier Sat sciences	Date of Test Coupon // 06.20
Welder Rorclay (Shot)	Date of Test Coupon // Ob-20
The state of the s	Date of Test Coupon

The above named individual is qualified in accordance with AWS D17.1.2001 to weld

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